HOFFRICHTER TECHNOLOGY FOR EASY BREATHING

point

RESPIRATORY THERAPY DEVICE

Serial number

HOFFRICHTER GmbH delivers all its systems and devices with a serial number in order to ensure traceability. The serial number is indicated on the type label on the rear of the system.

Please always specify the serial number in inquiries and complaints.

Conformity

The device meets the requirements of the
$\mathsf{C}\mathsf{E}_{0123}$ Directive 93/42/EEC.

Legend of Symbols

Type label information:

⚠ Observe Safety Instructions

🧍 Applied part type BF

▣ Electric safety class II (with protective insulation)

$C\epsilon_{0123}$ CE Declaration of Conformity

🏭 Manufacturer

📖 Observe the Operating Instructions

🚮 Do not dispose of the device with normal domestic waste. For information on the proper disposal of the device, please contact your responsible customer service.

Before using your CPAP respiratory therapy device for the first time, please thoroughly read these Operating Instructions.

Keep these Operating Instructions in a safe place for immediate consultation, if necessary.

For the period stipulated by law, **HOFFRICHTER** GmbH warrants that the product is free from any defects provided it is used as intended.

HOFFRICHTER GmbH is not liable for any damage and consequential damage nor for any effects on the safety, reliability and performance of the device, if:

- manipulations, modifications, expansions, adjustments, repairs and maintenance measures are carried out by persons not authorized by us to do so
- use is made of accessories and spare parts which come from other manufacturers and have not been released by us for use with the point
- the device is used in a way that is different from that described in the Operating Instructions
- the hygiene and cleaning instructions contained in these Operating Instructions fail to be observed

Safety Instructions

Power supply

The point has an external switched mode power supply unit with a wide range input of 100 - 240 V~, 50 - 60 Hz. This allows connection to all energy supply networks in the world.

It is also possible to operate the device with a direct voltage of 24 V DC, e.g. for mobile use in a truck or mobile home. When connecting the device to a DC supply source, please only use the optional connection cable and do not use the device with a PC.

In order to prevent potential hazards, please follow the instructions below:

1. Exclusively use the device for your own CPAP therapy, which must have been prescribed by a physician.

2. Only use accessories recommended and offered by the manufacturer (see pages 20–21) or by your local dealer.

3. Check the alarm functions of the device at regular intervals (see page 30-31).

4. Always ensure that the small hole in the mask or in the

adapter between the mask and the tubing is unobstructed so that the exhaled air that is loaded with CO_2 can escape.

5. Never set up the point in a compartment of a cabinet nor under your bed. Please make sure that air can easily circulate around the device.

6. Do not place the device in the vicinity of radiators.

7. Ensure that the device is positioned horizontally. This is particularly necessary if a humidifier is connected.

8. If you receive oxygen with your CPAP therapy, please follow all fire protection and safety regulations with regard to the use of oxygen.

9. Mobile use of the device is permitted only in a parked vehicle.

10. Immediately see your physician if, while using the device, you develop one or more of the following symptoms: dryness of the mucous membranes in nose and throat, frontal sinus complaints, earache, a running nose, hyper sensitivity of the skin, oversensitiveness, loss of voice, disturbances of orientation or memory.

11. Immediately notify your local dealer if the device fails to function properly.

12. Do not set up the device with its rear against a wall. Avoid covering the filter system.

To maintain electrical safety, please observe the following instructions:

- Do not put the device into operation if its housing and/or cables are damaged

- Do not open the housing of point. Notify your local dealer of any disturbances and failures

- Protect the device from water and moisture

- Never operate the device in moist rooms nor in a bathroom

- Do not place a vessel filled with fluid on the device

- Be absolutely sure not to seize the device if it has fallen into water

- Do not set up the device in the vicinity of water vessels (bath tubs)

- Before cleaning the device, always disconnect the power plug.

- Never place the respiration therapy device in the vicinity of other equipment or devices, such as defibrilators, diathermy equipment, mobile phones, microwave, remote-controlled toys, etc. Electromagnetic fields greater than 3 V/m may affect the operation of the device

Standby mode

The device is in the standby mode as long as the turbine is turned off. The standby mode is indicated by the illuminated display showing date and time. If a therapy air humidifier is connected to the device, it is also in the standby mode. To display the preset heater stage for 5 seconds, press the appropriate key. The power consumption in this mode is approx. 2 W. The *powerpack*point is charged in the standby mode.

- In the standby mode, the point may be continuously on without posing any danger

Intended Use

The point is intended for treating obstructive sleep apnea in patients with a weight of 30 kg and higher.

The point generates a continuous positive airway pressure in order to keep the upper respiratory tract unobstructed.

The point is not suitable for being used with patients who need artificial respiration. This therapy device is not a life-preserving system.

The treatment pressure is applied through a ventilation mask. This ventilation mask must be provided with an exhalation valve in order to ensure that the exhaled air is discharged. Do not wear the ventilation mask while the therapy device is turned off because, otherwise, you might rebreathe exhaled air. Please also follow the manufacturer's instructions on use of the ventilation mask.

Contraindications

Respiratory therapy may be contraindicated on patients with the following pre-existing diseases:

- Bullous lung diseases
- Pneumothorax
- Very low blood pressure
- Pneumocephaius or pre-existig CSF leaks or head trauma

In case of an inflammation of the paranasal sinuses or the middle ear, it might be indicated to stop the therapy. Please consult your physician.

If the device is provided with an *aqua*point humidifier, it must not be used with additives, such as drugs or aromatic oils, in the water of the humidifier.

Technology of point

The point is a CPAP therapy device for treating obstructive sleep apnea.

To generate the necessary pressure, the point is provided with an electronically controlled blower. In order to keep the stress for the patient as low as possible, the blower has been designed with a high reserve capacity and a quick control response.

The air ducts for respiratory air and for the convection air required for cooling the electronics are routed separately in the point.

The point contains a built-in microcontroller which controls all of its functions. The device is facilitated by an integrated quartz clock. Further comfort functions include a soft start ramp, the automatic start-stop function and the adjustable display brightness.
While passing through the device, the air is heated a little, so that it has a higher water absorbency. When indoor air is dry in winter, the mucous membranes in mouth and nose may become particularly dry. This is unpleasant and may even cause infections in exceptional cases. For that reason, a CPAP therapy might require humidification of the therapy air.

As an accessory part, a plug-in *aqua*point humidifier is available for the point.
If necessary, just click the humidifier onto the device. Remove it by turning its locking mechanism.
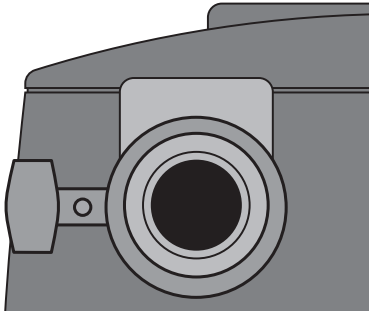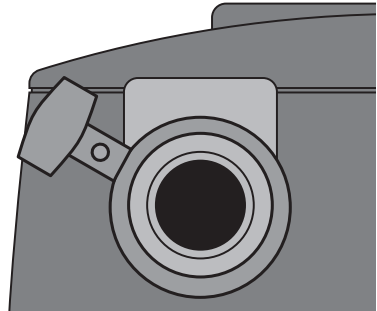
Humidifier locked   Humidifier unlocked

For more detailed information, please consult the *aqua*point manual.

1. Never turn the device on if you kept it in a very cold environment. Wait for approx. 1 hour until its temperature compensation is completed.

2. Check the air filter regularly. Clean the filter at regular intervals, as described on page 26. Never use the device without an air filter.

3. Clean your mask system regularly and check all accessory parts, particularly the therapy tubing, the mask and the head gear. We recommend that you wash your face before going to sleep, in order to remove facial oils and cosmetics from your skin. This increases the life of the mask and helps to prevent irritation to the skin.

Please strictly observe the following setup instructions:

1. Do not place the device near a heat source. Air circulation – particularly that below and behind the device – must not be impaired by furniture, curtains or cushions.

2. Set up the device next to your bed. Place it on a firm and flat surface.

3. During mobile use, the device must also be placed on a firm and flat base, which must have an edge to protect the device from falling off.

Controls

1. Operator panel / display
2. Air outlet
3. Cover for connection sockets for integratable humidifier
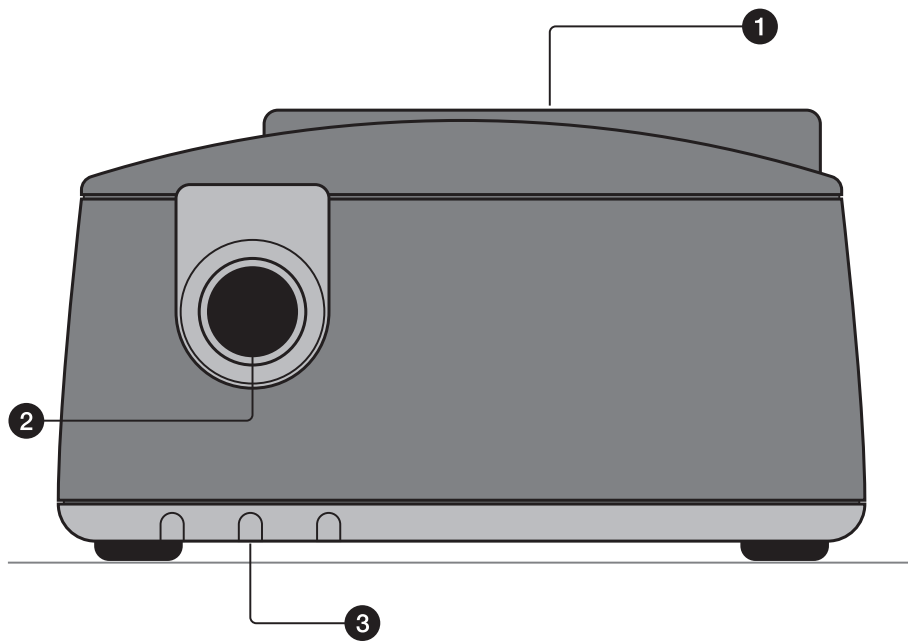
4. DC input
5. RS232 interface
6. Filter element
7. Type label

8. Display
9. Programming keys
10. Enter key
11. ON/OFF key
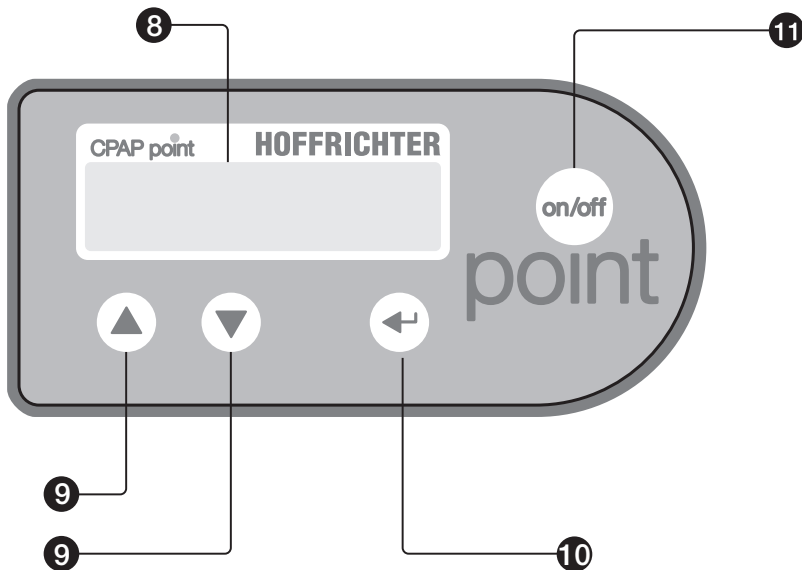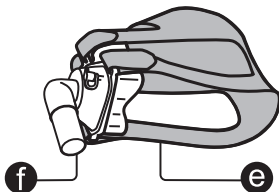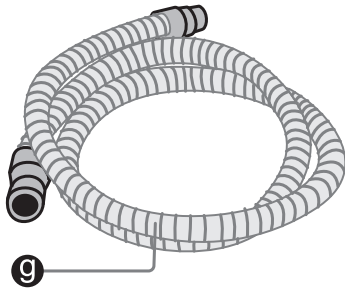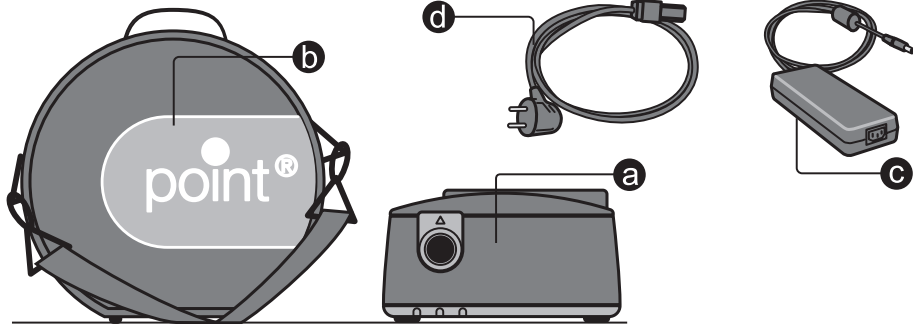
Part number:

a. Respiratory therapy device   0000 7844
b. Transport bag   0000 2111
c. Power supply unit   0000 2021
d. Power cord   3110 0012
e. Ventilation mask (optional)
   There are various mask systems available
f. Exhalation valve
g. Therapy tubing   0000 7875

Accessories

	Part number
Therapy air humidifier *aqua*point	0000 7845
Battery pack *powerpack*point	0000 7846
*filtersystem*point	0000 7847
Coarse filter for point	0000 2110
Fine filter for *filtersystem*point	0000 2109
Coarse filter for *filtersystem*point	0000 2108
24-V car cable	on request
12-V-to-24-V converter	on request

*powerpack*point
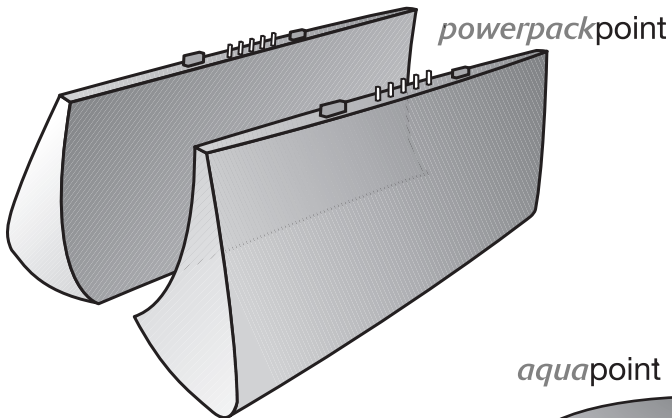
*aqua*point
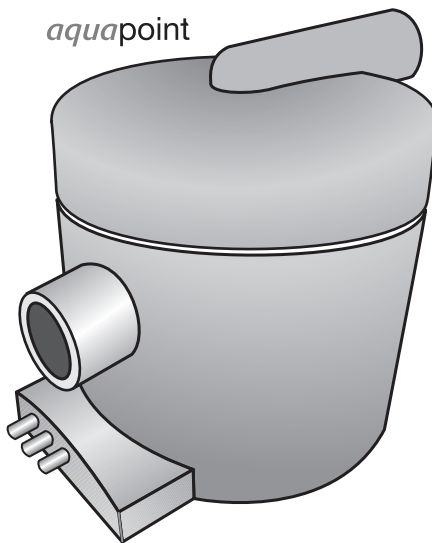
*filtersystem*point
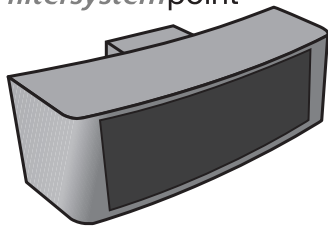
1. After having set up the device properly, connect the power supply lead to the device and, using the supplied power cord, to a mains outlet.

2. The device displays a welcome message, the software version and the current number of treatment hours. Thereafter, the display shows the date and time.

   ```
   CPAP point    HOFFRICHTER
   Press ON/OFF!
   13.Aug.06   12:33
   ```
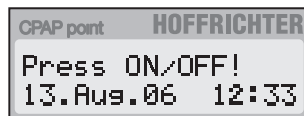
3. Connect the therapy tubing
   a) to the air outlet, and
   b) to the mask.

4. Apply the mask. If you have selected an automatic mode, the device will start on your first breath. In the manual mode, press the operator key to start the device.

5. The device will then run through the mask test for the time selected and at the pressure prescribed. You should now properly fit the mask in order to eliminate any potential leaks.

6. Place the tubing such that it does not exert any pulling action on the mask while you are lying down.

7. Breathe deeply and calmly only through your nose. If you have activated the soft start function, the device initially reduces the pressure after completion of the leakage test and will then slowly increase the pressure automatically to the prescribed level, allowing you to fall asleep at a lower pressure.

```
CPAP point        HOFFRICHTER
IIIIIIIII          8.5hPa
13.Aug.06    12:33
```

NOTE:
For information on how to adjust the soft start and mask test times to your individual demands, please refer to the section entitled Functions of point (pages 36–38).

10. ## Use of Oxygen

If you also have to inhale oxygen during your CPAP therapy, please be absolutely sure to follow the instructions from the manufacturer or the dealer delivering the oxygen to you.

If you supply the oxygen directly into the mask, please use a non-kinking tube that consists of a medically approved material. Please consult your local dealer.

You can also supply the oxygen through an adapter which is mounted to the air outlet. Please consult your local dealer.

In any case, please be absolutely sure to follow your physician's instructions.

CAUTION!
Oxygen promotes combustion processes. For that reason, please observe the valid fire protection regulations for the use of oxygen. Keep oxygen fittings free from fat, do not smoke, and do not handle the device near a naked flame.

CAUTION!
If you are using oxygen together with the CPAP device, the oxygen supply must always be turned off as long as the CPAP device is in the standby mode or while it is turned off.

- Always turn on the CPAP device first and only then the oxygen supply
- Turn off the oxygen supply before turning off the CPAP device
- Program the device to "Auto OFF", following the instructions on page 39
- Whenever you use the device, check the tube connections for a proper fit beforehand
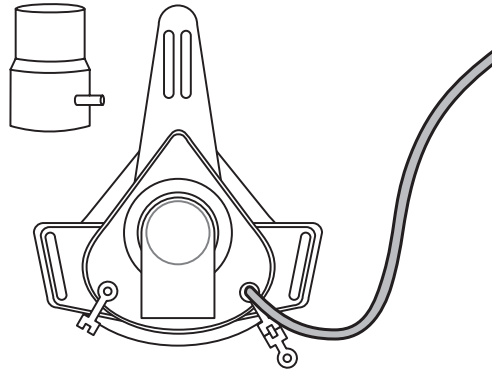
Cleaning the mask daily
- Disconnect the mask and the exhalation valve from the therapy tubing
- Clean the mask as described in the mask manufacturer's operating instructions

Changing / Cleaning the filter
- If the filter is dirty or if the display shows → Filter ←, the filter must be changed or washed. To do this, pull the filter out of the rear of the device and replace it with a new one
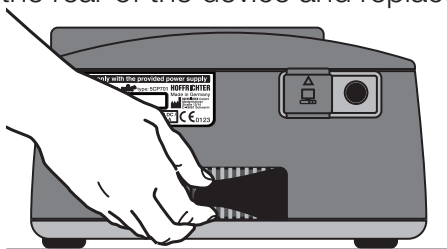
- If you operate the device with the optional *filtersystem* point, please clean and change the filter as described in the operating instructions of the filter
- To reset the message, hold and press the enter key while turning the device on by connecting the power plug

NOTE:
Never operate the point without a filter.
Only and exclusively use original **HOFFRICHTER** filters. Otherwise,
the warranty for the device will be invalid.

Cleaning the therapy tubing weekly
- Use mild soapy water, thoroughly rinse with clear water, and
  let the tubing dry in air

Cleaning the device weekly
- Disconnect the power plug
- Wipe the device with a cloth slightly moistened with soapy
  water. Then use a dry cloth to wipe the device dry

Cleaning the head gear (if necessary)
- Disconnect the head gear from the mask
- Clean the head gear as described in the head gear manufac-
  turer's operating instructions

Cleaning the humidifier (if mounted)
- Disconnect the humidifier from the therapy tubing and, by tur-
  ning the unlocking lever, from the respiratory therapy device
- Clean the humidifier as described in the *aqua*point manual

You do not have to disinfect the device or parts of the device chemically or thermally.

Preparing the device for a different patient
If the patient using the device changes, the device must be hygienically prepared by a special dealer or by the manufacturer. The necessary procedure is described in detail in the appropriate hygiene plan.

Power failure

After a power failure and subsequent power restoration, the motor restarts automatically, and the display shows the following message:

```
CPAP point    HOFFRICHTER

Power Failure
Restart Turbine
```

If the optionally available *powerpack*point is used, the battery supplies the device with current in the event of a power failure.

Mask alarm

This alarm function is activated only if the automatic function is turned off. If the mask has slipped off your face or if the tubing is pulled off the device, the device is not turned off automatically, but emits a visual and audible alarm.

```
CPAP point    HOFFRICHTER

Mask Alarm ......9s
Check Mask!
```

Wake alarm

The point is provided with an integrated alarm clock. Using the programming keys, you can activate and deactivate this alarm clock at any time, for example on weekends. The alarm clock emits an alarm at the programmed wake time. Press the operator key once to set the alarm for the next 5 minutes and twice to deactivate it completely.

Checking the power failure function

Use the device with running blower and then pull out the power plug. Reinsert the power plug in the outlet. The device should automatically continue the therapy.

If you use the *powerpack*point, disconnect one battery before starting the test.

Checking the mask alarm

Use the device with running turbine in the manual mode (Auto OFF). The mask is attached to the therapytubing but not applied to the face. After a short time, an audible signal is emitted.

You can program the functions of the **point** with the following three keys:

▲ = programming key
▼ = programming key
↵ = enter key
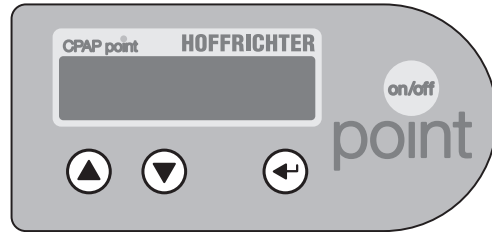
Press and hold the enter key (↵) for some time to move to the programming mode. The menu will now appear on the display.

The display always comprises no more than two lines. Using the ▲ and ▼ keys, you can select the lines to be displayed. A triangular symbol ▶ preceding the line indicates that this line has been selected.

Example: wake time

The **point** provides two menus:
1. Standard menu
2. Complete menu

13. Functions of point

To switch between the menus, you must press and hold the ▲ and ▼ keys at the same time while the menu is activated. The device acknowledges with the one of the following messages:

Standard-Menu active	or	Complete-Menu active

Standard menu	Complete menu	Adjustable	Display
	Language	DEU, ENG, FRA, ITA, NLD, PLK	
Wake time	Wake time	Hours, minutes	
Time	Time	Hours, minutes	
Date	Date	Day, month, year	
	Mask test	0–90 sec	in 5-sec increm.
	Ramp	0–30 min	in 10-min increm.
	↵ P-ramp	4–20 hPa	in 0.5-hPa increm
	Automatic mode	AUTO OFF AUTO START/STOP AUTO START	
	Pressure PIN-protect.	4–20 hPa	in 0.5-hPa increm
	Operation		Time display in hrs.
	↵ Turbine		Time display in hrs.
	↵ Filter		Time display in hrs.
	↵ Therapy		Time display in hrs.
	Brightness	0 -100 %	in 5% increments

NOTE:

If you do not press any key for 30 seconds while programming, the programming mode is automatically exited for safety reasons.

Unless the changed value is confirmed with the enter key when the programming mode is exited, the original value remains.

Language

point can display messages in German (DEU), English (ENG), French (FRA), Italian (ITA), Netherlands (NLD) and Polish (PLK). Further languages can be implemented at any time.

Setting the language:

1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Language
3. Using the ↵ key, set the desired language
4. Select the line "Exit Menu" and press the ↵ key to exit the menu

Wake time

The wake time is that point in time when the device generates an
alarm tone provided the alarm clock has been activated.
To activate the alarm clock, press the ▲ key. The display briefly
shows the wake time allowing you to verify it. To deactivate the
alarm clock, press the ▼ key. On the display, an activated alarm
is indicated by a bell symbol preceding the time.

```
CPAP point    HOFFRICHTER
Press ON/OFF!
13.Aug.06 ♣12:33
```
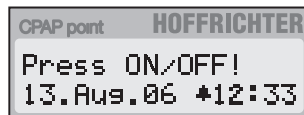
You can deactivate the alarm tone in two different ways:
1. Press the ON/OFF key. This starts the "Slumber" mode. You
   will be wakened again after 5 minutes. The display shows:

```
CPAP point    HOFFRICHTER
Press ON/OFF!
Slumber..........4:45
```

To stop the slumber mode prematurely, press the ON/OFF key.

2. To deactivate the alarm clock, press the ▼ key.

Setting the wake time:
1. Select the complete or the standard menu (see page 32)
2. Using the ▲ and ▼ keys, select Wake Time
3. Press the ↵ key and, using the ▲ and ▼ keys, set the hours and confirm with the ↵ key
4. Using the ▲ and ▼ keys, set the minutes and confirm with the ↵ key

Time
With its built-in battery, the internal clock has a reserve power of 8 years without connection to the external power supply. You can set hours (00 to 24) and minutes (00 to 59). The clock is provided for outputting the correct date and for proper functioning of the alarm clock.

Setting the time:
1. Select the complete or the standard menu (see page 32)
2. Using the ▲ and ▼ keys, select Time
3. Press the ↵ key and, using the ▲ and ▼ keys, set the hours and confirm with the ↵ key
4. Using the ▲ and ▼ keys, set the minutes and confirm with the ↵ key

Date
You can set the day (1 to 31), the month (January to December) and the year (00 to 99).

Setting the date:
1. Select the complete or the standard menu (see page 32)
2. Using the ▲ and ▼ keys, select Date
3. Press the ↵ key and, using the ▲ and ▼ keys, set the year and confirm with the ↵ key
4. Using the ▲ and ▼ keys, set the month and confirm with the ↵ key
5. Using the ▲ and ▼ keys, set the day and confirm with the ↵ key

Mask test
To ensure that the mask is tight while the pressure slowly increases in the soft start ramp even with higher pressures, you can program a mask testing time of up to 90 seconds. This mask test is carried out before the ramp is started. It checks whether the mask is tight even under the maximum therapy pressure.

Setting the mask test:
1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Mask Test
3. Press the ↵ key and, using the ▲ and ▼ keys, set the
   seconds and confirm with the ↵ key

Ramp

Whenever the turbine has been started, the microcontroller of
point checks whether a soft start ramp has been programmed.
While the programmed time elapses, the soft start function
increases the pressure from an adjustable initial ramp pressure
(P-Ramp) up to the pressure prescribed, thus allowing you to fall
asleep more easily.
The soft start may facilitate your tolerance towards the respiratory
therapy.
point allows delay times ranging from zero (the prescribed therapy
pressure is applied at once) to 30 minutes (the prescribed therapy
pressure is built up within 30 minutes).
The initial ramp pressure (P-Ramp) can be set within a range from
4 hPa to the pressure prescribed.

Setting the ramp:
1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select **Ramp**
3. Press the ↵ key and, using the ▲ and ▼ keys, set the minutes (ramp) and confirm with the ↵ key
4. Using the ▲ and ▼ keys, set the value for the initial pressure (P-ramp) and confirm with the ↵ key

Pressure in hPa

Pressure prescribed: 10 hPa (mbar)

The pressure is gradually increased up to the therapeutic pressure

Mask test

10

8

6

4

0 - 90 s

0   10   20   30

Time in min.

Programmed softstart time (0 - 30 min.)
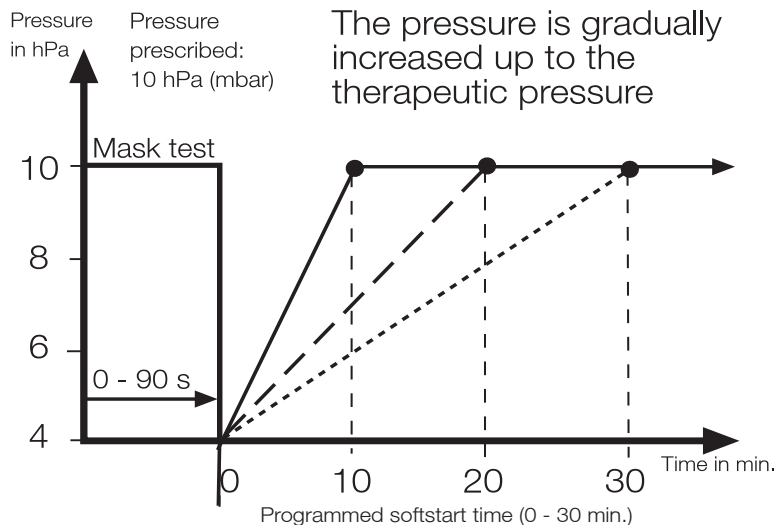
Automatic mode

The automatic mode provides three settings
(OFF, START/STOP, START).

1. Automatic mode OFF (with mask alarm)
   If you set "Auto OFF" the device must be turned on in the eve-
   ning and off in the morning with the ON/OFF key. If the mask
   slips off your face or a leak occurs while you are asleep, a
   visual and audible warning is emitted.

```
CPAP point     HOFFRICHTER
Mask Alarm .....9s
Check Mask!
```

2. Automatic START/STOP
   If you set "Auto START/STOP", you must simply put the
   mask on your face. Once you start breathing, the turbine of
   point is turned on. If you take the mask off, the turbine is
   automatically turned off after a delay time of 5 seconds.
   In the automatic mode, the turbine is turned off even if the
   mask or the tubing slips off unnoticed during the night.

3. Automatic START (with mask alarm)
   The third option that can be selected is
   the "Auto START" mode. In this mode,
   the turbine is also turned on once you

```
CPAP point     HOFFRICHTER
▶Auto..........Start
 Exit Menu
```

put the mask on your face. However, the turbine will not be turned off if the mask or the tubing slips off unnoticed during the night. It can only be turned off by pressing the ON/OFF key.

Setting the automatic mode:
1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Auto
3. Using the ↵ key, set the desired automatic function
4. Select the line Exit Menu and press the ↵ key to exit the menu

The device can be turned on and off in each of the modes by pressing the ON/OFF key.

Pressure

The therapy pressure is PIN-protected and may only be adjusted by a physician.

Do not try to find out the PIN. If you are in doubt as to whether the pressure prescribed is the proper one, please consult your physician.

Setting the pressure:

1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Pressure
3. Confirm with the ↵ key and enter the PIN code using the ▲ and ▼ keys. Press the ↵ key after each digit
4. Using the ▲ and ▼ keys, set the desired therapy pressure and confirm with the ↵ key

Operation
This menu item shows the total operating hours including the
standby mode of **point**, the turbine running time, the filter opera-
ting time and the therapy time.

Inquiring the operating times of the device:
1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Operation
3. The total running hours including standby are displayed
4. Press the ↵ key. The turbine running time is displayed
5. Press the ↵ key. The filter operating time is displayed
6. Press the ↵ key. The therapy time is displayed

Brightness

The brightness of the display can be set as desired.
You can set the brightness within a range of 0 % to 100 %.
The set value defines the brightness which develops after 30
seconds. If you press any key, the brightness is always 100 %.

Setting the brightness:
1. Select the complete menu (see page 32)
2. Using the ▲ and ▼ keys, select Brightness
3. Confirm with the ↵ key and, using the ▲ and ▼ keys, set
   the desired brightness
4. Confirm with the ↵ key

14. Troubleshooting

Problem	Possible cause	Remedy
Unpleasant feeling of an excessive pressure	Unwellness with pre-scribed high pressure values	If you think there is a mistake, consult a physician
	Pressure tolerance not completely acquired yet	Relax; use or alter the soft start functi-on
Dryness and irritation of nose and throat	Air too dry	Device probably with-out air humidi-fier; consult a physician and consi-der prescription of retrofitting an *aqua*point humidifier
Return of original sleep apnea symptoms	Different physical condition and different conditions of living	Inform the attending physician
	Device failure	Return the device to the service to have it checked

Problem	Possible cause	Remedy
Irritation of the eyes or dry eyes	Air escaping from between the mask and the skin of your face	Replace the mask if its material has become brittle
		Check the mask for proper positioning
Running nose, urge to sneeze	Reaction to the air flow	Increase the air humidity in the room or the temperature of the humidifier
	Common cold	Consult a physician
Cold nose	Room temperature too low	Increase the room temperature; warm up the tubing under your pillow
Reddening of the skin in the area of the mask; swelling of the skin	Wrong mask size	Inform the attending physician
	Head gear too tight	Head straps loosened
	Allergic reaction	Inform the attending physician

14. Troubleshooting

Problem	Possible cause	Remedy
Air too warm	Dirty filter	Exchange filter
	Air inlet is blocked	Make sure air input is clear
	Heating too close to point	Check position of point
No air flow	Device defective	Contact your authorized dealer
Low air flow	Soft start function active	Decrease soft start time
	Air input is blocked	Make sure air inlet is clear
Turbine always works with maximum speed	Leakage in device	Contact your authorized dealer
Pain in nose, paranasal sinuses or ears	Inflammation of the paranasal sinuses or the middle ear	Stop therapy and consult a physician

The sections below describe the most important display messages. All further messages will be clear from their context.

`Mask Test 55s`	You have 55 sec left for seating the mask properly. Once this time has elapsed, the device starts with the soft start function.
`Ramp . . . 10:33`	There is 10 min and 33 sec left until the full therapy pressure has been reached.
`Mask Alarm 10s` `Check Mask`	The mask has slipped off your face or you failed to put the mask on your face while the automatic mode was turned off and the blower was running.
`Alarm ON 05:45`	You pressed the ▲ key in the normal operating mode. There will be a message that you will be wakened at 05.45 hours.
`Alarm Clock OFF`	You pressed the ▼ key in the normal operating mode. There will be a message that the alarm clock has been turned off.

15. Display Indications

| Wake Alarm | The wake alarm has been initiated. Press the ON/OFF operator key once to initiate the slumber phase. Press the key once again to turn off the alarm clock completely. |

| Slumber 1:18 | There is 1 min and 18 sec left until the alarm clock will waken you again. |

| Wake Alarm OFF | You pressed the operator key and stopped the slumber phase. |

| → Filter ← | Change the filter (see page 26). To reset the message, hold and press the enter key ↵ while turning the device on with the DC connector. |

| Power Failure Restart Turbine | After the line voltage has been restored, the turbine of point restarts automatically. |

Although all parts of point have a very long service life, the device should be inspected after 5000 operating hours respectivly every 2 years. We urgently recommend a technical inspection through our authorized customer service, since they have the necessary tools and measuring instruments.

You can contribute to increasing the service life and to maintaining proper and reliable functioning.
1. Please also observe the cleaning instructions on page 26.
2. Check the system at regular intervals.

Proceed according to the following check list:
• Visually check whether the device is damaged and/or dirty on its outside
• Check the "mask alarm" function once a week (see page 29)

Disposal of the device
For information on the proper disposal of the device, please contact your responsible customer service.

Disposal of the packaging
You can return the packaging to your marketing partner or dispose it separately with your normal domestic waste.

17. Technical Data

Dimensions in mm (w x l x h)	170 x 250 x 95 (without humidifier)
Weight	approx. 1.35 kg (without humidifier)
Power supply	100 V~ … 240 V~, 50 ... 60 Hz External power supply unit, 24 V DC
Pressure range	4…20 hPa (mbar) in 0.5-hPa increments
Power consumption without humidifier	24 W (mean value)
Power consumption, standby mode	< 2 W
Pressure variance	< 0.5 hPa at an operating pressure of < 10 hPa
Noise level without mask	< 30 dB(A) at 10 hPa (mbar) according to MDS requirements
Air delivery volume	160 l/min at 10 hPa
Operating temperature	+ 5° C ... + 40° C
Storage temperature	– 20° C ... + 70° C
Air humidity (operation & storage)	10 ... 95 % rel. air humidity
Application (altitude above MSL)	– 400 m ... 3500 m (1060 hPa ... 700 hPa)

CE mark according to EC Directive 93/42/EEC, device in compliance with MDD, Class IIa

Technical specifications subject to technical modifications.

Surname . . . .

First name . . . .

Address Line 1 . . . .

Town / City /Postal code . . . .

Telephone Number . . . .

Date of Birth . . . .

Health insurance . . . .

Serial number . . . .

Software version . . . .

Mask type . . . .

Mask size . . . .

18. Patient Passport

Date						
Weight						
Height						
Blood pressure						
Apnea index						
Medication						
CPAP pressure						
Therapy level						

Physician's stamp

Hospital stamp

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Manufacturer

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Germany

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URL:	www.hoffrichter.de

Device service

Next service							
Completed							

Dealer's stamp